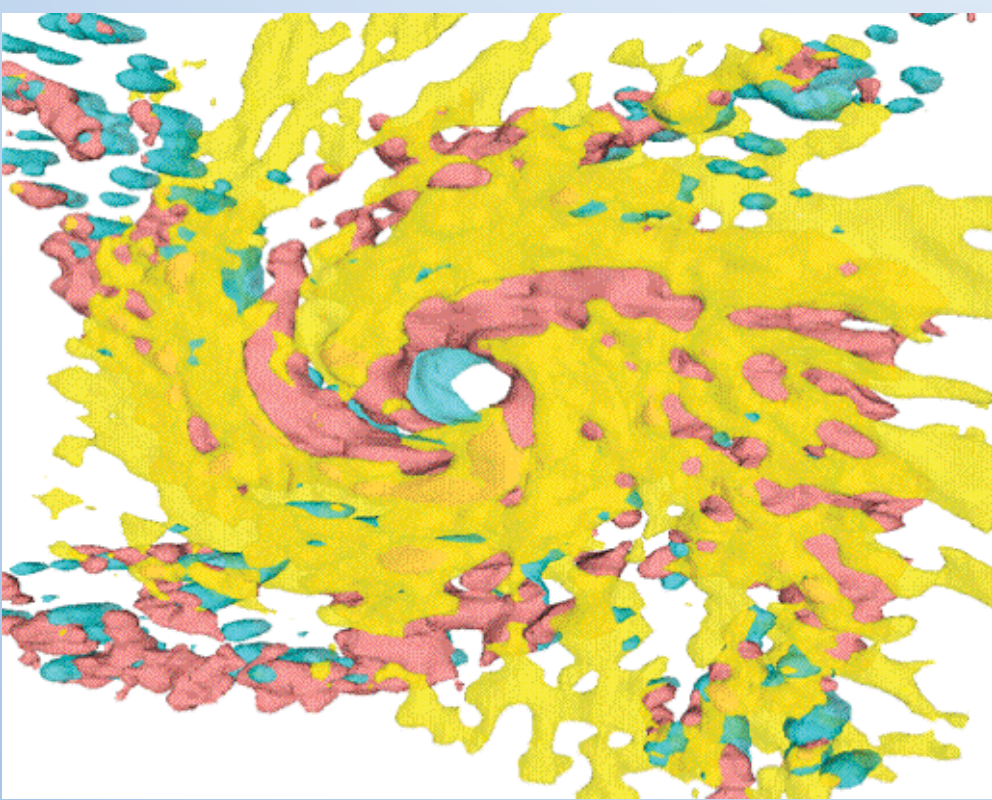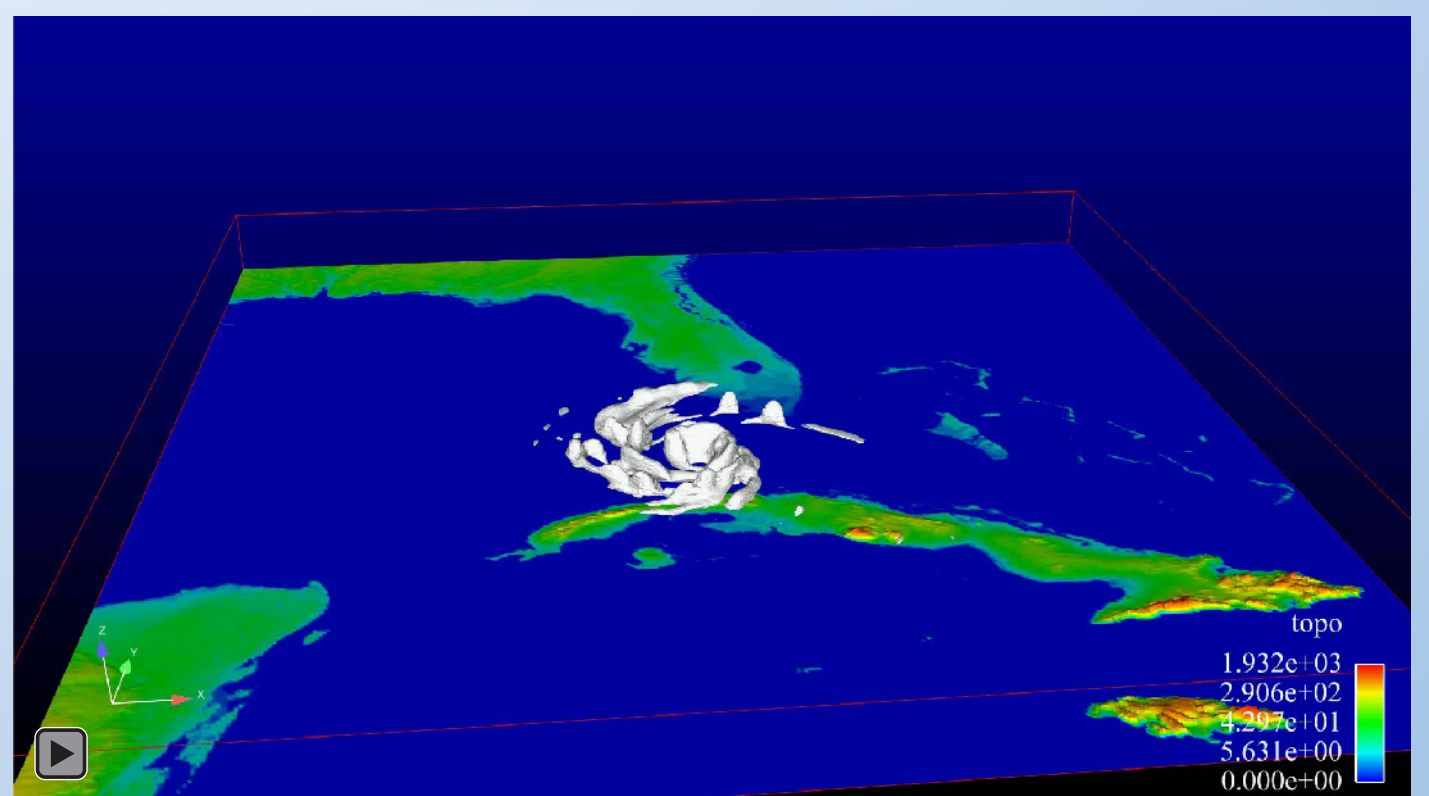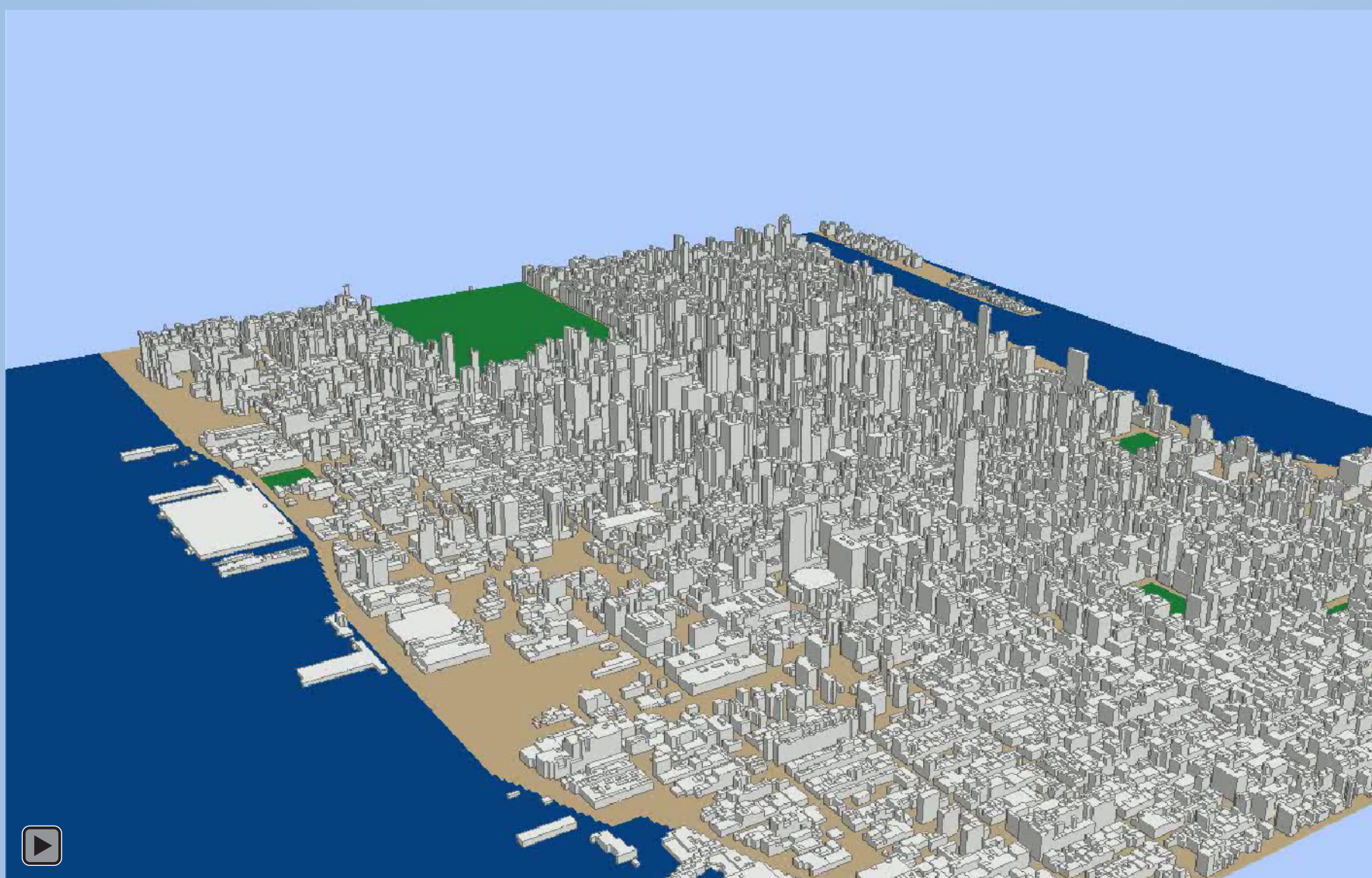# HIGRAD: LANL's Atmospheric Hydrodynamics Model

A massively parallelized atmospheric CFD framework used for many applications, such as simulations of wildfires (FIRETEC), wind turbines (WindBlade), hurricanes, urban dispersion, urban firestorm, and coupled atmosphere-biosphere dynamics.

Hurricane simulation

HIGRAD simulation of hurricane Rita, which caused $11.3 billion in damage on the U.S. Gulf coast in September 2005

Urban firestorm simulation

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